8-25-04 JFW

EXPRESS MAIL NO. EV449562679US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	:	Orest W. Blaschuk et al.
Application No.	:	10/759,379
Filed	:	January 16, 2004
For	:	METHODS FOR DIAGNOSIS AND EVALUATING CANCER

Art Unit	:	1642
Docket No.	:	100086.407C12
Date	:	August 23, 2004

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Form PTO-1449 (copies of the cited references are enclosed). As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC

Jeffrey E. Hundley, Ph.D., Patent Agent
Registration No. 42,676

JEH:ljt

Enclosures:

Postcard
Transmittal Form
Forms PTO-1449 (9 Sheets)
Cited References (82)

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TRANSMITTAL FORM

(To be used for all correspondence after initial filing)

Application Number	10/759,379
Filing Date	January 16, 2004
First Named Inventor	Orest W. Blaschuk
Art Unit	1642
Examiner Name	
Attorney Docket No.	100086.407C12

ENCLOSURES (*check all that apply*)

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Response
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement; Form PTO-1449
- ☒ 82 Cited References
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts under 37 C.F.R. 1.52 or 1.53
- ☐ Response to Missing Parts/Incomplete Application
- ☐ Drawing(s)
- ☐ Request for Corrected Filing Receipt
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation, Change of Correspondence Address
- ☐ Declaration
- ☐ Statement under 37 CFR 3.73(b)
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD(s), Number of CD(s) _____
- ☐ After Allowance Communication to Technology Center (TC)
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC *(Appeal Notice, Brief, Reply Brief)*
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Return Receipt Postcard
- ☐ Additional Enclosure(s) *(please identify below)*:

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Individual Name	Jeffrey E. Hundley, Ph.D., Patent Agent Reg. No. 42,676	Customer Number 00500
Signature		
Date	August 23, 2004	

CERTIFICATE OF TRANSMISSION/MAILING

VIA EXPRESS MAIL

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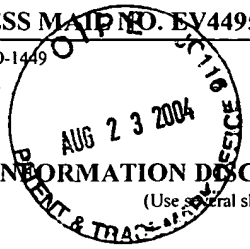

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	APPLICATION NO.
		100086.407C12	10/759,379
	INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	APPLICANTS: Orest W. Blaschuk et al.	
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,585,351	12/17/96	Ranscht	514	12	
	AB	5,597,725	01/28/97	Suzuki	435	328	
	AC	5,610,281	03/11/97	Brenner et al.	530	388.85	
	AD	5,639,634	06/17/97	Suzuki	435	69.1	
	AE	5,643,781	07/01/97	Suzuki	435	325	
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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	AK	GB 2 282 379 A	04/05/95	United Kingdom		
	AL	WO 91/04745	04/18/91	WIPO		
	AM	WO 94/11401	05/26/94	WIPO		
	AN	WO 96/27387	09/12/96	WIPO		
	AO	WO 97/38011	10/16/97	WIPO		

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✓	AP		Albelda et al., "Adhesion Molecules and Inflammatory Injury," *FASEB J. 8*(8): 504-512, May 1994.
✓	AQ		Bangma et al., "The Value of Screening Tests in the Detection of Prostate Cancer. Part I: Results of a Retrospective Evaluation of 1726 Men," *Urology 46*(6): 773-778, 1995.
✓	AR		Berndorff et al., "Liver-Intestine Cadherin: Molecular Cloning and Characterization of a Novel Ca^{2+}-dependent Cell Adhesion Molecule Expressed in Liver and Intestine," *The Journal of Cell Biology 125*(6): 1353-1369, June 1994.

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	BA	5,895,748	04/20/99	Johnson et al.	435	7.23	
	BB	5,916,771	06/29/99	Hori et al.	435	69.6	
	BC	5,997,866	12/07/99	Johnson et al.	424	138.1	
	BD	6,031,072	02/29/00	Blaschuk et al.	530	317	
	BE	6,060,595	05/09/00	Scaglioni et al.	536	23.72	
	BF	6,083,713	07/04/00	Manly et al.	435	69.1	
	BG						
	BH						
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	BJ						

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	BK	WO 98/02452	01/22/98	WIPO		
	BL	WO 98/25946	06/18/98	WIPO		
	BM	WO 00/02917	01/20/00	WIPO		
	BN					
	BO					

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	CA						

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	CB					

OTHER ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

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/	CD		Doherty and Walsh, "Signal transduction events underlying neurite outgrowth stimulated by cell adhesion molecules," *Current Opinion in Neurobiology 4*: 49-55, 1994.
/	CE		Edgington, "How Sweet It Is: Selectin-Mediating Drugs," *Bio/Technology 10*(4): 383-389, April 1992.
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/	CL		Huber, P. et al., "Genomic Structure and Chromosomal Mapping of the Mouse VE-Cadherin Gene (*Cdh5*)," *Genomics 32*: 21-28, 1996.

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	DB					

OTHER ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

✓	DC		Inoue et al., "Cadherin-6 in the Developing Mouse Brain: Expression Along Restricted Connection Systems and Synaptic Localization Suggest a Potential Role in Neuronal Circuitry," *Developmental Dynamics 211*: 338-351, April 1998.
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✓	DJ		Klopfenstein et al., "Increased N-cadherin mediated adhesion does not reduce invasion of Rous sarcoma virus-transformed astrocyte-like WC5 cells," *Proceedings of the American Association for Cancer Research 34*:33, March 1993.
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	EA						

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	EB					

OTHER ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

✓	EC		Kogan *et al.*, "A Single Amino Acid Residue Can Determine the Ligand Specificity of E-selectin," *The Journal of Biological Chemistry 270*(23):14047-14055, June 9, 1995.
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✓	EE		Kools, P.F.J. et al., "Expression in mesenchymal tumors of alternative cadherin-11 transcripts encoding truncated adhesion molecules: a mechanism for acquiring invasive properties?" *Clinical & Experimental Metastasis 14*(Suppl.1): 52-53, September 1996.
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✓	EI		Matsuyoshi and Imamura, "Multiple Cadherins Are Expressed in Human Fibroblasts," *Biochemical And Biophysical Research Communications 235*: 355-358, 1997.
✓	EJ		Mulders et al., "Prostate-specific antigen (PSA). A tissue-specific and sensitive tumor marker," *Eur. J. Surg. Oncol. 16*: 37-41, 1990.
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	FB					

OTHER ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

✓	FC		Munro et al., "Characterization of Cadherins Expressed by Murine Thymocytes," *Cellular Immunology 169*: 309-312, 1996.
✓	FD		Munro, S.B. et al., "E-Cadherin and OB-Cadherin mRNA in Normal Human Colon and Colon Carcinoma," *Experimental and Molecular Pathology 62*(2): 118-122, April 1995.
✓	FE		Nagashima et al., "Invasion properties in malignant gliomas_expression of N-cadherin mRNA in gliomas," *Proceedings of the American Association for Cancer Research 37*:68, March 1996.
✓	FF		Nakagawa and Takeichi, "Neural crest cell-cell adhesion controlled by sequential and subpopulation-specific expression of novel cadherins," *Development 121*: 1321-1332, 1995.
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✓	FH		Ngo *et al.*, "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox," *The Protein Folding Problem and Tertiary Structure Prediction*, K. Merz, Jr. and S. Le Grand (eds.), Birkhäuser, Boston, pp. 491-495, 1994.
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✓	FJ		Parker et al., "Desmosomal Glycoproteins II and III. Cadherin-Like Junctional Molecules Generated By Alternative Splicing," *The Journal of Biological Chemistry 266*(16): 10438-10445, January 1991.
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	GB					

OTHER ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

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✓	GH		Saffell et al., "Expression of a Dominant Negative FGF Receptor Inhibits Axonal Growth and FGF Receptor Phosphorylation Stimulated by CAMs," *Neuron 18*: 231-242, 1997.
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✓	GK		Shibata et al., "Simultaneous expression of cadherin-11 in signet-ring cell carcinoma and stromal cells of diffuse-type gastric cancer," *Cancer Letters 99*: 147-153, 1996.
✓	GL		Shimazui et al., "Complex Cadherin Expression in Renal Cell Carcinoma," *Cancer Research 56*: 3234-3237, July 15, 1996.

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	HB					

OTHER ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

✓	HC		Shimoyama et al., "Isolation and Sequence Analysis of Human Cadherin-6 Complementary DNA for the Full Coding Sequence and Its Expression in Human Carcinoma Cells," *Cancer Research 55*: 2206-2211, May 15, 1995.
✓	HD		Shimoyama et al., "Molecular Cloning and Characterization of a Novel Human Classic Cadherin Homolgous with Mouse Muscle Cadherin," *The Journal of Biological Chemistry 273*(16): 10011-10018, April 17, 1998.
✓	HE		Simonneau et al., "Cadherin 11 Expression Marks the Mesenchymal Phenotype: Towards New Functions for Cadherins?," *Cell Adhesion and Communication 3*: 115-130, 1995.
✓	HF		Slootstra et al., "Structural Aspects of Antibody-Antigen Interaction Revealed Through Small Random Peptide Libraries," *Molecular Diversity 1*: 87-96, 1995.
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✓	HH		Suzuki et al., "Diversity of the cadherin family: evidence for eight new cadherins in nervous tissue," *Cell Regulation 2*: 261-270, April 1991.
	HI		Taber's Cyclopedic Medical Dictionary, 17th Ed., F.A. Davis Company, Philadelphia, 1993, pg. 1016.
✓	HJ		Tanihara et al., "Cloning of Five Human Cadherins Clarifies Characteristic Features of Cadherin Extracellular Domain and Provides Further Evidence for Two Structurally Different Types of Cadherin," *Cell Adhesion and Communication 2*: 15-26, 1994.
✓	HK		The Merck Manual of Diagnosis and Therapy, 16th ED., Berkow, R. et al. (eds.), Merck Research Laboratories, Rahway, NJ, 1992, pgs. 1264-1265.
✓	HL		Tkachuk et al., "Identification of an atypical lipoprotein-binding protein from human aortic smooth muscle as T-cadherin," *FEBS Letters 421*: 208-212, 1998.

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	IB					

OTHER ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

✓	IC		Tsutsui et al., "Expression of Cadherin-Catenin Complexes in Human Leukemia Cell Lines," *J. Biochem. 120*: 1034-1039, 1996.
✓	ID		Vallin, J. et al., "Xenopus cadherin-11 is expressed in different populations of migrating neural crest cells," *Mechanisms of Development 75*(1-2): 171-174, July 1998.
✓	IE		Van Den Brüle et al., "Genes Involved in Tumor Invasion and Metastasis are Differentially Modulated by Estradiol and Progestin in Human Breast-Cancer Cells," *Int. J. Cancer 52*: 653-657, October 1992.
✓	IF		Vestal and Ranscht, "Glycosyl Phosphatidylinositol-anchored T-Cadherin Mediates Calcium-dependent, Homophilic Cell Adhesion," *The Journal of Cell Biology 119*(2): 451-461, October 1992.
✓	IG		Ward and Mulligan, "Blocking of Adhesion Molecules *In Vivo* as Anti-Inflammatory Therapy," *Therapeutic Immunology 1*: 165-171, 1994.
✓	IH		Wheeler et al., "Desmosomal glycoprotein DGI, a component of intercellular desmosome junctions, is related to the cadherin family of cell adhesion molecules," *Proc. Natl. Acad. Sci. USA 88*: 4796-4800, June 1991.
✓	II		Wheelock, M.J. et al., "Soluble 80-kd Fragment of Cell-CAM 120/80 Disrupts Cell-Cell Adhesion," *Journal of Cellular Biochemistry 34*: 187-202, 1987.
✓	IJ		Williams et al., "Activation of the FGF Receptor Underlies Neurite Outgrowth Stimulated by L1, N-CAM, and N-Cadherin," *Neuron 13*: 583-594, September 1994.
	IK		
	IL		

EXAMINER	DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).